

To: Dickerson, Dave[dickerson.dave@epa.gov]; Lederer, Dave[Lederer.Dave@epa.gov]
Cc: Ellen Iorio[maryellen.iorio@usace.army.mil]
From: White, Patricia
Sent: Thur 10/5/2017 8:23:08 PM
Subject: Placemat calculation - Aerovox flux estimate
[Aerovox placemat flux calc 20171003.xlsx](#)

Hi Dave and Dave,

On the Aerovox interim cap call today, I referenced a “placemat” calculation (one step above a back-of-the-envelope) to estimate total PCB loading from the Aerovox proposed interim cap area to the harbor based on the passive sampler study results. Dan has checked and verified my calculations. The total PCB flux for the interim cap area (as shown in the Draft Comprehensive Plan) comes out to about 5 kg/year. For comparison, Steve Wolf estimated a groundwater flux of ~47 g/year from the Aerovox site into the river (7/6/17 calculation), and the Woods Hole Group (2010) estimated a PCB net flux of 118 g/day out of the harbor at the hurricane barrier, which equates to about 47 kg/year.

This “placemat” estimate is simply intended to inform our conceptual understanding of what is going on – the design team will most likely treat the flux data differently for the interim cap design (to be discussed further at the October 31st working meeting).

Patty

Patty White

Senior Research Scientist

Office: 781.681.5507 | Mobile: 617.721.2527

whitep@battelle.org

Battelle

141 Longwater Dr.

Suite 202

Norwell, MA 02061

<http://www.battelle.org>

This message is intended only for the use of the individual or entity to which it is addressed, and may contain information that is privileged, confidential and/or otherwise exempt from disclosure under applicable law. If the reader of this message is not the intended recipient or the employee or agent responsible for delivering the message to the intended recipient, any disclosure, dissemination, distribution, copying or other use of this communication or its substance is prohibited. If you have received this communication in error, please return to the sender and delete from your computer system